

Addendum 3 Summary of the SSP Independent Assessments

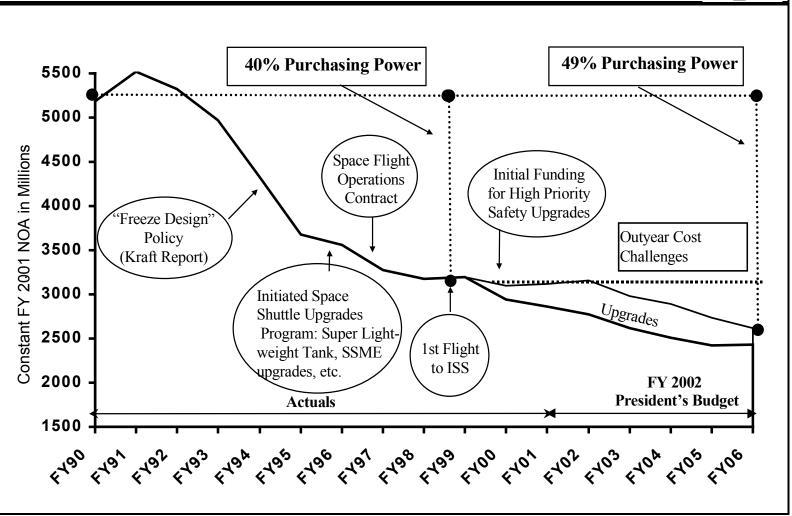
No.	Organization	Report Date	Findings	Recommendations	NASA Response
1	NRC	1999	"Approach to upgrade planning is appropriate", formal selection process goal oriented for evaluation and prioritization of upgrades.	25 recommendations regarding invest strategies, quantitative and decision support systems usage, evaluation and prioritization criteria, specific upgrades to include, industry involvement, etc	All recommendations implemented
2	GAO	Aug-2000	"NASA's strategic human capital planning was inadequate"	<u>1 recommendation</u> for developing and implementing plans to have a proper worker skill mix and staffing levels to support SSP.	Staffing plans developed and implemented for FY 2000 & FY 2001 (I)
3	SFAC	Aug-2000	"A tremendous amount of outstanding work being done on Space Shuttle Upgrades." This was the first meeting of SFAC to evaluate SSP upgrades	<u>3 recommendations</u> regarding elaboration of selection criteria, realistic cost, schedule, budget information, and "human error" parameter inclusion for risk assessment.	Recommendations implemented.
4	SFAC	Nov-2000	Status review of Aug-2000 Report	Revised guidance on recommendations	NASA will continue to implement based on revised guidance
5	SIAT	Mar-2000	SIAT formed as a result of STS-93 ascent anomalies; (wiring problems) there were issues with SSP risk management, operations, etc. SIAT reviewed avionics, human factors, wiring, APUs, problem reporting, wiring safety & mission assurance.	implementation prior to return to flight; 37 recommendations required prior to making 4 more flights; 30 recommendations required prior to 1/1/01, and 10 recommendations required by FY 2005.	Majority of recommendations implemented and the rest were to be implemented by FY 2005, but may be deferred.
6	ASAP	Feb-2001	Comments on shuttle planning horizon for upgrades; crew escape system study; hydraulic line maintenance; launch & landing paperwork and aging of ground support and checkou test facilities and equipment; and comments on CY1999 report recommendations (24) for implementation	6 recommendations regarding maintenance long-term planning, crew escape study, hydraulic line maintenance, paperwork closeou, updating engineering drawings, and budget plan to maintain KSC assets that support SSP	CY2000 recommendations are in work; 13 of the 24 CY1999 ASAP report recommendations have been closed, remainder are still in work.
7	SFAC	Mar-2001	\$1.6 Billion budget for safety upgrades and 2005 implementation is unrealistic; Shuttle still operational a decade after 2012; more upgrades needed, especially in propulsion and crew escape.	<u>2 recommendations</u> , 1 on review of requirements for cockpit avionics, EAPU, shuttle engine Phase II, SRB TVC	Plans are in work for implementation
8	SFAC IPAO	Jun-2001 Jul-2001	Cockpit Avionics and EAPU upgrade evaluations	<u>8 CAU recommendations.</u> CAU is ready to proceed as an actual project. EAPU is not recommended as an upgrade; technology is stil too much of a challenge.	money not transferred to ISS.
9	ASAP	Aug-2001	9 Findings in assessing the overall SSP risk posture, due to FY 2002 cost challenges, in regards to delaying Orbiter Maintenance Modifications (OMMs) for Discovery and Endeavour until FY 2005/2006 respectively; and retaining Orbiter Structural Inspections (SIs) at KSC.	<u>5 recommendations</u> in regards to providing experienced/trained workforce, planning SI requirements, availability of KSC or Palmdale without interrupting the launch schedule and still fly safely; and long-term OMM/OMDP staffing plans for the foreseeable life of the Space Shuttle.	JSC SSP management evaluating options.



Space Shuttle Program

Historical Budget FY 01\$'s







Space Shuttle Budget OMB Guidance



President's FY'02 Budget Blueprint

- Space Shuttle: The budget provides for a sustained level of six Space Shuttle flights per year and continues funding for Space Shuttle safety improvements, within which NASA will establish safety investment priorities for Shuttle safety upgrades and critical facilities.
- Space Shuttle Privatization: NASA will aggressively pursue Space Shuttle privatization opportunities that improve the Shuttle's safety and operational efficiency. This reform will include continued implementation of planned and new privatization efforts through the Space Shuttle prime contract and further efforts to safely and effectively transfer civil service positions and responsibilities to the Space Shuttle contractor.

Addendum 5

